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Clean Specification
PCT/EP99/01177

TITLE OF THE INVENTION

Data Bus for a Plurality of Nodes

This application claims the priority of German Patent Application
5 198 10 294.1, filed August 10, 1998 and PCT/EP99/01177 filed
February 23, 1999, the disclosures of which are expressly
incorporated by reference herein.

The invention relates to a star-shaped data bus for a plurality
of nodes which exchange data with one another over at least one
electric line. The circuit-technological realization of a data
bus of this type is known in the form of an open collector
circuit. An open collector circuit has the disadvantage that at
high rates of transmission and many bus nodes a relatively small
resistance value must be used as collector resistance in order
15 to achieve a sufficient steepness of the edge of the signal
information present in pulse form. This leads to high currents
and the necessity of use of power transistors and power resistors
as well as high power losses.

The objective of the invention is to provide a data bus of the
20 type stated initially which makes possible interference-free bus
communication with low circuit-technological expenditure even in
the case of a large number of bus nodes.

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